# RICHARDSHI

Software Developer

## CONTACT

### **WORK EXPERIENCE**

647-261-7049 **\**mail@richardshi.com **□**qithub.com/richard-shi **○** 

Hubdoc Software Engineer Sept 2017-Present

## **SKILLS**

## **Highly Skilled**

Java, C, C++, Swift, Javascript

- Designed and upgraded a responsive data visualization dashboard with Express,
  Backbone and PostgreSQL for enabling advanced analytics solutions
- Created and optimized hundreds of Node microservices in a small team to automate financial data aggregation for accountants, earning \$300,000+ in monthly revenue.
- Improved microservice fetch success rate from 58% to 80%

#### **Proficient**

Python, Bash, Objective-C Postgres, Redis, Cassandra ARM Assembly LATEX

#### Rave Media

Jan 2017-Apr 2017

iOS Software Engineer

- Created a novel networking layer for the Rave social video app in Swift, reducing request latency by 14%
- Worked in a small team to add Rakuten and Netflix support to the app
- Redesigned and optimized memory management of the app, reducing usage by 73%
- Implemented new build system to cut build times by 84% and enable Swift frameworks

## **EDUCATION**

Candidate for BASc in Computer Engineering University of Waterloo Expected 06/2020

#### Blackberry

May 2016-Aug 2016

Software Engineer - Camera Firmware

- Developed Android OS Camera enhancements including a dynamic performance adjuster, enabling 3X video resolution increase at minimal performance loss
- Optimized Android camera drivers for the Blackberry Priv, DTEK50 and DTEK60

## **AWARDS**

Oracle Certified Associate, Java SE 7 Programmer Summer 2015

## **INTERESTS**

#### **World History**

Former President of high school Model United Nations Club; Actively organized lectures and mock debates for 30+ students for regional competitions

#### Swimming Strategy Games Mechanical Keyboards

## PERSONAL PROJECTS

#### ReactionBot.js

reactionbot-js.herokuapp.com

Node.js, Heroku, Express, PostgresSQL, Slack API, BotKit API, Dashbot API, WebSockets

- Created a chatbot for Slack that allows users to share images and memes with more than 30 engaged teams since release
- Uses the Slack API with WebSockets on Express and Postgres

#### Blockchain.is

git.io/chainjs

Node.js, Express

Created a Blockchain implementation in Node with a Bitcoin-style Proof of Work algorithm and over-the-network chain distribution with Express

#### Path Polo - Hack the North 2016

git.io/v9wlz

Android API, Java, Pebble API, Google Maps API

- Built an Android/Pebble watch app to guide the visually impaired using haptic feedback
- Directed users to locations chosen on Google Maps on phone or pebble app

#### **Barcode Scanner**

git.io/vdrv8

Swift, iOS API

· Created an iOS app to scan QR codes and barcodes of a variety of types in Swift